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## **Auto industry races to make ventilators**

Repurposing car factories for emergency production has drawn comparisons to World War II

🔵 In Spain, Volkswagen's Seat brand has switched to producing ventilators

Mercedes has asked its Formula 1 team to get to work

AFP | Paris

he automotive industry is offering its expertise and manpower to the hospital sector as it gears up to build mechanical ventilators during the coronavirus pandemic, an initiative that is being met with some scepticism.

American auto manufacturers General Motors and Ford, French car companies PSA and Renault, Germany's Volkswagen group and Formula 1 engineers have joined the ranks in response to a massive global shortage of the vital piece of medical equipment.

As hospitals around the world face a surge of patients with breathing difficulties from COV-ID-19, the scarcity of ventilators has forced doctors to make lifeor-death decisions.

Repurposing car factories for emergency production has drawn comparisons to World War II, when they were used to build tanks and fighter planes.

But some experts say that in this situation, building critical care ventilators will require different techniques and procedures from what a car factory normally sees.

US President Donald Trump



Mechanical ventilators needed to treat those suffering from respiratory distress due to COVID-19 are in short supply



A mechanical ventilator being developed by Spanish automobile manufacturer SEAT at the company's Martorell factory using a windscreen wiper motor



Mechanical engineers, doctors and the Mercedes Formula 1 team in conjunction with University College London have adapted a device used to help people who have trouble breathing while sleeping to help COVID-19 patients

used wartime economy anal- mula 1 said in a statement. ogies to justify his appeal to the automobile industry as the country grapples with a mounting number of coronavirus cases. car industry's entry into the He ultimately used a 1950s law world of medical equipment, concerning defence production however. to force one of GM's plants to make ventilators.

In France, meanwhile, a con- ganisation founded after the sortium of industrial companies creation of the atomic bomb has been created -- including and which is known for its PSA and automotive equipment symbolic "Doomsday Clock", supplier Valeo -- to manufac- said in a recent article that car ture "10,000 ventilators by mid- manufacturers are not best May", President Emmanuel Macron announced Tuesday.

In Spain, Volkswagen's Seat brand has switched to produc- the pumps and air conditioners ing ventilators at its Martorell plant near Barcelona.

The proposed model, which uses the adapted motor of a windscreen wiper, is already unstatement.

asked its Formula 1 team, which ground to a halt, it said in its was idle due to postponed or report. cancelled Grand Prix races, to get to work.

The six-time world cham- bombers can only get us so far in pion team built a less-invasive solving the ventilator problems respiratory device in order to of today," the group said. reserve ventilators -- which require breathing tubes and se- they are up to the task. dation -- for the most severely affected patients.

ufacture some 1,000 units a day centre in France, to work on with the help of six other UK- developing a prototype using based F1 teams which have com-state-of-the-art equipment such mitted to help build the devices. as 3D printers

A version of the device -which increases air and oxygen of the coronavirus, time is of the flow into the lungs and is often essence. used to treat sleep apnea -- has already been used in hospitals in Italy and China to help COVID-19 patients.

The "Project Pitlane" mission takes advantage of "the core skills of the F1 industry: rapid design, prototype manufacture, in motor racing, but not necestest and skilled assembly," For- sarily in other industries.

#### **Dependent on suppliers**

Some look sceptically on the

The Bulletin of the Atomic Scientists, a non-profit orplaced for assembling medical equipment.

'Ventilators might resemble used in automobiles, but few automakers build their own -- they buy them from specialised producers," the group pointed out.

While carmakers have undergoing testing with the hopes der-utilised production capaciof gaining formal approval from ty at the moment, they are still health authorities, Seat said in a dependent on suppliers who are often overseas, at a moment For its part, Mercedes has when supply chains have nearly

"Facile images of Ford assembly lines building World War II

But car manufacturers say

Renault has put its "technocentre" outside of Paris, its larg-The team says it could man- est research and development

In the world race to get ahead

For Formula 1 and University College London engineers, "it took fewer than 100 hours from the initial meeting to production of the first device," the team said.

This may be a typical lead time

#### **Pirelli CEO slams** brakes on talk of **Brembo** merger Reuters | Milan

The head of Pirelli said there were no plans to merge with Brembo BRMBI. MI after the brakes maker bought a small stake in the Italian tyre maker, downplaying speculation on Wednesday of a tie-up between the two Italian auto brands.

#### **Russia, Saudi not** holding oil talks at the moment -Kremlin Reuters | Moscow

 ${
m R}^{
m ussia}$  and Saudi Arabia are not holding talks regarding the oil market at the moment and Russian President Vladimir Putin has no immediate plans to have a phone call with Saudi leadership, Kremlin spokesman Dmitry Peskov said yesterday.

Such talks could be set up quickly if necessary, Peskov said in a statement yesterday.

#### **Carrefour teams up** with Uber Eats for lockdown deliveries **Reuters** | Paris

 ${f F}^{
m rench}$  supermarket re-tailer Carrefour and Uber Eats said yesterday they would launch a new delivery service aimed at helping Parisians buy essential goods and food during the nationwide lockdown triggered by the coronavirus crisis.

### German plexiglass firm churns out virus shields

#### Wiesbaden | Germany

outed as a simple but effective shield against coronavirus infections. transparent screens have sprung up at supermarket tills and pharmacies across Germany. For plexiglass manufacturer Claus Mueller, business has never been better -- but no one is celebrating. The Plexiglas Riesner processing plant in Wiesbaden is abuzz with activity as owner Mueller and his workers race to get out the next batch of orders, cutting and bending acrylic sheets to size while the phone rings off the hook. It's the busiest time in the small company's 114-year history, with requests coming in faster than the supply chain can handle. "We have endless work but the reason is verv sad, so we can't be euphoric about it," Mueller tells AFP Demand for "sneeze guards" fected person's mouth or nose, among the few retailers that reputting at risk those whose jobs main open. don't allow them to keep the foot) distance.



ic sheets, Mueller points out founder Karl Riesner's son trademark.

that the high-quality Plexiglas switched to cheaper and easier (spelled with a single "s") that he to manipulate plexiglass in 1957. mostly works with is a registered Mueller took over the firm in 2004 after stumbling across it on And his Plexiglas wholesaler a government website that conhas warned that deliveries of nects entrepreneurs with small raw materials are grinding to a and medium-size "Mittelstand" halt as the virus disrupts global companies, considered the backproduction lines, with many fac- bone of Europe's top economy, in "I ran the numbers and knew "We're not expecting new de- I could make it work," he recalls. Looking past the coronavirus crisis, Mueller expects demand for plexiglass from food retailers ing regular orders for long-time will drop off, and predicts that many will eventually remove

"It's the sensible thing to do if install screens, from Carrefour ing up his sleeves to pitch in as shorthand for any acryl- glass-cutting business before nently."

Workers cut and bend each piece of the clear plastic into the shape needed

close contact can't be avoided," says Mueller.

In the space of mere weeks, has surged as companies scram- German shoppers have become doubled in March compared ble to protect employees from a used to the sight of plexiglass with pre-virus times, boostdeadly virus that is transmitted barriers separating them from ed by business from hospitals, stock, and estimates he only has worth \$5.3 billion (4.8 billion protect our patients in case we through droplets from an in- cashiers in grocery stores, pharmacies, hotels, banks, and

recommended two-metre (six- chains are opting for the rel- local Aldi supermarkets, with still," Mueller says. atively affordable and easy to the jovial Mueller regularly roll-

the United States.

Mueller says his sales have doctors' offices.

The company is also working Elsewhere too, supermarket on a large order destined for Germany is coming to a stand-

in France to Walmart in with the three employees on the workshop floor.

#### **Running low**

enough to keep going for another week or two.

"It seems the whole market in

While plexiglass is often used

tories shutting down or putting need of successors. workers on reduced hours.

liveries until early May," Mueller says

April will likely be spent fillindustrial customers.

"After earning double in one the screens. month, the pressure is off and we can get by for a bit," Mueller coming a fixture in pharmacies says, declining to give numbers. and doctors' reception areas. "We won't go bust, unlike hit hard by Germany's lockdown while the pandemic rages, with measures.

360 Market Updates, the global But he is fast running out of market for acrylic sheets was protective screens. They also grow to \$7.1 billion by 2024.

#### 'Feel safer'

pany started out as a family suggested we keep them perma-

But he can see plexiglass be-

One of his customers, pharmany other companies," he macist Iris Erdelmeier, says she sighs, expressing concern for a feels more comfortable workfriend whose snack bar has been ing behind the plastic safeguard plexiglass dividers installed at According to research firm all three of her pharmacy's tills.

"We feel much safer with the euros) in 2019 and is forecast to ourselves were to be infected without showing symptoms," she savs.

"Customers have actually told The Plexiglas Riesner com- us they like the screens, and have